

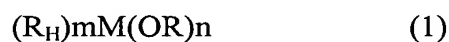
IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A hologram recording material comprising:  
a metal oxide matrix; and  
a photopolymerizable compound, said metal oxide matrix having a halogen-containing organic group.

Claim 2 (Original): The hologram recording material according to claim 1, wherein said halogen-containing organic group is a halogenated hydrocarbon group.

Claim 3 (Original): The hologram recording material according to claim 1, wherein the metal oxide matrix is formed by hydrolysis and polymerization reaction of a metal alkoxide compound, and said metal alkoxide compound includes a metal alkoxide compound represented by the following general formula (1):



wherein  $R_H$  represents a halogen-containing organic group,

R represents an alkyl group,

M represents a metal atom,

m represents 1 or 2, and

$m + n$  represents the valence of the metal atom M.

Claim 4 (Original): The hologram recording material according to claim 1, wherein the metal oxide matrix is made mainly of an oxide of silicon.

Claim 5 (Original): The hologram recording material according to claim 1, wherein said photopolymerizable compound has an aromatic ring.

Claim 6 (Original): The hologram recording material according to claim 1, further comprising a photopolymerization initiator.

Claim 7 (Currently Amended): A process for producing a hologram recording material, the process comprising the steps of:

hydrolyzing a metal alkoxide compound which includes a metal alkoxide compound represented by the following general formula (1):



wherein  $R_H$  represents a halogen-containing organic group,

R represents an alkyl group,

M represents a metal atom,

m represents 1 or 2, and

$m + n$  represents the valence of the metal atom M, thereby yielding a precursor of a metal oxide matrix;

mixing a photopolymerizable compound before or after said hydrolysis; and  
curing the metal oxide matrix precursor mixed with the photopolymerizable compound, thereby forming a metal oxide matrix.

Claim 8 (Currently Amended): A hologram recording medium having the hologram recording material according to ~~any one of claims 1 to 7~~ claim 1.